## Listing of Claims:

- (Currently Amended) A method for <u>selecting executing</u> inverse discrete cosine transform
   (iDCT) algorithms, <u>said method</u> comprising <u>the steps of</u>:
- a) examining the coefficients of a DCT block to determine the position of the an End of Block (EOB) length coefficient;
- b) selecting an iDCT algorithm <u>from a plurality of iDCT algorithms</u> according to the <u>EOB length</u> [position of said EOB coefficient and using an EOB histogram for B-frames]; and
  - c) executing said the selected iDCT algorithm.
- 2. (Currently Amended) The method of claim 1, <u>further comprising:</u>
  generating a histogram of EOB lengths for a number of B frames corresponding to a shot,
  [wherein said iDCT algorithm is an iDCT\_high algorithm available to said method and selected using an EOB histogram of the first B-frame of a shot].
- 3. (Currently Amended) The method of <u>claim 2</u> <u>claim 1</u>, wherein said iDCT algorithm is an iDCT\_low algorithm available to said method and selected using an EOB histogram of the first B-frame of <u>a the</u> shot.
- 4. (Currently Amended) A system for reducing iDCT execution time, said system comprising:
- a) determination means for determining the position of an End of Block (EOB) coefficient length in a DCT block;

- b) selection means for selecting an iDCT algorithm <u>from a plurality of iDCT</u>

  <u>algorithms</u> based upon the <del>position of</del> said EOB <u>length</u> <u>coefficient</u> and using an EOB <u>length</u>

  histogram <u>for a number</u> of B-frames; and
  - c) execution means for executing said <u>selected</u> iDCT algorithm.
- 5. (Currently Amended) A system <u>as recited in claim 4, [for reducing iDCT execution time, said system comprising:</u>
- a) determination means for determining the position of an End of Block (EOB) coefficient in a DCT block;
- b) selection means for selecting an iDCT algorithm based upon the position of said EOB coefficient; and
  - c) execution means for executing said iDCT algorithm;]

wherein said iDCT algorithm is **selected determined** by creating an EOB **length** histogram of the first B-frame of a shot.

- 6. (Currently Amended) A <u>computer program encoded on a</u> computer readable medium containing instructions for selecting and executing inverse discrete cosine transform (iDCT) algorithms, said instructions performing the steps of:
- a) examining the coefficients of a DCT block to determine an End of Block (EOB) length based upon the position of the End of Block (EOB) coefficient;
- b) selecting an iDCT algorithm according to the **EOB length** position of said **EOB** coefficient and using an EOB length histogram for B-frames; and
  - c) executing said iDCT algorithm.

- 7. (Currently Amended) The method of claim 2 wherein said iDCT\_high algorithm is based upon an EOB **coefficient length** of 39 or 40.
- 8. (Currently Amended) The method of claim 3 wherein said iDCT\_low algorithm is based upon an EOB coefficient length of 14 or 25.
- 9. (Currently Amended) The medium of claim 6 wherein said iDCT\_high algorithm is based upon an EOB **coefficient length** of 39 or 40.
- 10. (Currently Amended) The medium of claim 6 wherein said iDCT\_low algorithm is based upon an EOB coefficient length of 14 or 25.
- 11. (Currently Amended) A system for reducing inverse discrete cosine transform (iDCT) execution time, said system comprising:
- a) a plurality of iDCT algorithms comprising an iDCT\_high algorithm and an iDCT low algorithm;
- b) a switch for selecting a selected algorithm from said plurality of iDCT algorithms and using <u>a histogram of</u> an End of Block(EOB) <u>lengths</u> histogram for <u>a number of</u> B-frames; and
  - c) a computer processor for executing said selected algorithm.
- 12. (Currently Amended) The system of claim 11 wherein said switch accepts as input:
  - a) a block of DCT coefficients;
  - b) an End of Block address; and
  - c) a picture type **bit** rate.

13.	(Previously Presented) The system of claim 11 wherein said plurality of iDCT algorithms
further comprises:	
	iDCT_Normal, iDCT_AC and iDCT_DC.
14.	(Cancelled)
15.	(Cancelled)
16.	(Cancelled)
17.	(Cancelled)
18.	(Currently Amended) The method of claim 2 elaim 17 wherein the shot includes a
sequen	ce of frames bounded on each side by a video transition.
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19.	(Previously Presented) The method of claim 18 wherein the video transition includes one
of a cu	t frame, a dissolve, or a cross-dissolve.
20.	(Currently Amended) The method of <u>claim 1</u> <u>claim 17</u> wherein the plurality of iDCT
algoritl	nms includes one of: iDCT_Normal, iDCT_AC, iDCT_high, iDCT_low and iDCT_DC.
21.	(New) The method of claim 2 wherein said iDCT algorithm is an iDCT_high algorithm
availab	ele to said method and selected using an EOB histogram of the first B-frame of the shot.